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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/831,505	08/01/2001	Toru Aoki	2001-0565A	5693
513	7590 · 04/06/2004		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.			BRITT, CYNTHIA H	
2033 K STREET N. W. SUITE 800		ART UNIT	PAPER NUMBER	
WASHINGT	WASHINGTON, DC 20006-1021		2133	<i>r</i>
			DATE MAILED: 04/06/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)	.e.C				
		09/831,505	AOKI, TORU					
		Examiner	Art Unit					
		Cynthia Britt	2133					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONI	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
Status								
1)[🖂	Responsive to communication(s) filed on 12 Ja	anuary 2004.						
	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-4</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) <u>1-4</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or other contents.							
Applicat	ion Papers							
10)⊠ 	The specification is objected to by the Examine The drawing(s) filed on <u>12 January 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).					
Priority	under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) ce of Draftsperson's Patent Drawing Review (PTO-948) ce No(s)/Mail Date 8.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:						

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#### **DETAILED ACTION**

Claims 1-4 are presented for examination.

### Specification

The substitute specification, including the abstract, filed January 12, 2004 is acceptable and has been entered. Therefore the objection to the specification has been withdrawn.

### Information Disclosure Statement

The information disclosure statement (IDS) submitted on September 25, 2003 has been considered by the examiner.

### **Drawings**

The drawings were received on January 12, 2004. These drawings are acceptable.

## Response to Arguments

Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 rejected under 35 U.S.C. 102(e) as being anticipated by Cho et al. U.S. Patent No. 6,158,039.

As per claim 1, Cho et al. teach the claimed system having a descrambler for restoring scrambled data in the process of encoding data, includes first and second memories for correcting an error, and a memory controller for transmitting error-corrected data to the descrambler while data read and demodulated from the optical disk is written in one of the memories, and error-correcting data written in the other memory while the demodulated and error-corrected data is written and read. The system includes the steps of: alternatively writing one error correcting block in the first and second memories upon receiving demodulation data of one data sector including main data, inner parity data and outer parity data, error-correcting a corresponding one error correcting block; and reading error-corrected data from one of the first and second memories when writing one error correcting block in the other one of the first and second memories. After data is corrected it is transmitted to a host. (Abstract, column 3 lines 20-54, column 4 lines 39-61, Figure 3)

As per claim 2, Cho et al. teach for the PI error correction of the first row, data is read from a data region and data is read from a PI region to detect and correct the error. The error-corrected data is again written in a position where the error occurs. The PI

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error correction is performed with respect to both the main data and PO. To calculate a syndrome, an error position and an error value of one row, the data and parity are read by the unit of a word. Since the maximum number of bytes per row which can correct the error is 10 bytes, reading and writing are repeated by 10 times. PO error correction is performed in the column direction by the unit of a byte, the memory should be accessed by the unit of a byte. To calculate the syndrome, error position and error value of one column, the data and parity are read. The maximum number of bytes per column that can correct the error is 16 bytes. Error information detected from the descrambler and error detector is stored in the second memory under the control of a microprocessor memory access controller (FIG. 7, column 2 lines 42-49, column 5 lines 61 through column 6 line 18)

As per claims 3 and 4, Cho et al. teaches the memory controller writes one error-correcting block in the third memory. The memory controller error-corrects data written in the third memory and simultaneously writes the next one error-correcting block in the fourth memory. Next, the memory controller error-corrects data written in the fourth memory, transmits data error-corrected from the third memory to the memory read controller, and writes the next one error correcting block in the third memory. Then, the memory controller error-corrects data written in the third memory, transmits the error-corrected data of the fourth memory to the memory read controller, and writes the next one error correcting block in the fourth memory. The memory controller checks whether the reception of demodulated data has ended. (Fig 5, column 4 line 65 through column 5 line 16)

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#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Britt whose telephone number is 703-308-2391. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cynthia Britt Examiner Art Unit 2133

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